Omar Alhinnawi

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WORK EXPERIENCE

Scientist I
Arete

12/2018 - 05/2021

- Theorize, design, and implement optimizations for large-scale software systems to achieve increased speedups and replace computationally expensive algorithms with higher-efficiency ones.
- Implement deep-learning architectures (such as U-Net and GAN type models) to solve challenging computer vision and classification problems.
- Program specialized learning models for problem-specific lexical analysis and context retrieval.
- Design, develop, document, test, integrate, and debug software written in languages including C, Python, and C++.
- Translate physics and math-based algorithms into code and thoroughly test algorithms to mission-critical standards.

VEX Robotics Club
California State University, Northridge

08/2018 - 12/2018

- Led a university robotics team and programmed autonomous functions, resulting in successful trial runs and competitive standing.
- Designed aspects of robot chassis, mechanical loads, and pathfinding algorithms using CAD and SolidWorks applications.
- Gave lectures on programming fundamentals to new members with nontechnical backgrounds to ease transition into the club.

Independent Retailer
Self

01/2017 - 08/2018

- Founded small import-export business for high-volume sale of mobile products across numerous platforms.
- Developed marketing campaigns by designing advertisements and promoting them with keywords and search engine optimization.
- Negotiated with overseas merchants on price and quality of products and coordinated packaging and shipping operations.
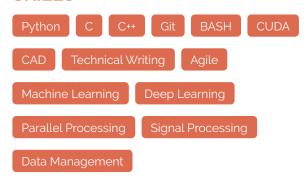
EDUCATION

Bachelor of Science, Computer Science
California State University, Northridge

06/2020

SKILLS

Python | C | C++ | Git | BASH | CUDA
CAD | Technical Writing | Agile
Machine Learning | Deep Learning
Parallel Processing | Signal Processing
Data Management

PROJECTS

Tir (08/2019 - 05/2020)
- Artificial-intelligence-based natural-language processing application programmed in Python (back-end) and ReactJS (front-end) that processes raw inputs from a social media site (Reddit) and aggregates topics, context keywords, and general sentiment classified by community and date

Heart Disease Predictor (08/2018 - 12/2018)
- Neural network built in Python utilizing a backpropagation system for calculations (NumPy) which analyzes individual's health traits and returns their probable risk of heart disease

HONOR AWARDS

Spot Award (11/2020)
Arete
- Awarded for excellence in large-scale project work and successful presentation and delivery to clients

Marketing Award (06/2020)
Arete
- Awarded for outstanding contributions to solving natural-language processing and web-scraping problems, resulting in increased company capacity

INTERESTS

Artificial Intelligence | Natural-Language Processing
Social Media | Robotics | 3D Printing

LANGUAGES

English
Native or Bilingual Proficiency

Arabic
Native or Bilingual Proficiency